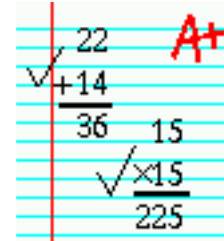




POWER STANDARDS

5th Grade Mathematics

By the end of the year each student will...



Number Sense & Operations

- recognize and write numbers from 1/100 to 1,000,000.
- know number in ones, tens, hundreds, thousands, ten thousands, and hundred thousands columns up to 999,999.
- use expanded notation up to 999,999 ($900,000 + 90,000 + 9,000 + 900 + 90 + 9$).
- identify place values from hundredths to one million.
- know 2 to 20 as prime or composite numbers.
- know exponents up to 3 (i.e. $8 = 2 \times 2 \times 2 = 2^3$).
- determine if a number is divisible by 2, 3, 5, 9 and/or 10 using the rules of divisibility.
- add, subtract, and multiply fractions and decimals.
- select and write number sentences that can solve a 2 step problem.
- multiply 3 digit by 2 digit.
- divide 3 digit by 1 digit divisor.
- order and compare whole numbers, fractions, mixed numbers, and decimals.
- write commonly used fractions as decimals and percents.
- name, write, and compare fractions: halves, thirds, fourths, fifths, sixths, eighths, tenths, and twelfths.
- understand equivalent fractions.

Key

- 0 - Not taught**
- 1 - Not on target for mastery**
- 2 - On target for mastery**
- 3 - Near mastery**
- 4 - Mastery**

Patterns

- analyze patterns in lists or tables.
- solve 1 step equations using a single variable ($4+x=7$).
- recognize and apply associative $(2+1)+3=2+(1+3)$, communicative $2 \times 3=3 \times 2$, and distributive $4(3+2)=4 \times 3 + 4 \times 2$ properties.

Geometry

- identify and describe equilateral, isosceles, scalene, right, acute, and obtuse triangles.
- identify, write, and graph an ordered pair for a point in the 1st quadrant.

Measurement

- make conversions within the same measurement system.
- measure angles with protractors.
- calculate elapsed time within an AM or PM period.

Data Organization

- collect, compare, and display data using line plots, bar graphs, pictographs, circle graphs, and line graphs.
- identify the minimum, maximum, range, mode, median, and mean for sets of data.
- perform simple experiments in probability; predict and express the outcomes in a variety of methods.

